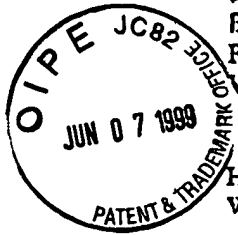


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of LOCHT et al.)
Serial No.: 08/765,287) Group Art Unit
Filed: 09/12/1997) Examiner: RYAN
For: RECOMBINANT PROTEINS OF FILAMENTOUS HAEMAGGLUTININ OF
BORDETTELLA, PARTICULARLY BORDETTELLA PERTUSSIS, METHOD FOR
PRODUCING SAME, AND USES THEREOF FOR PRODUCING FOREIGN PROTEINS OR
VACCINATING ACTIVE PRINCIPLES



RESPONSE AND AMENDMENT

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

In complete response to the Official Action mailed January 5, 1999, the time for responding to which has been extended by the accompanying Petition for Extension of Time and fee, kindly amend the above-captioned application as follows:

To the Claims:

Please delete claim 26 without prejudice or disclaimer of any subject matter contained therein.

Please amend the claims as follows:

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--1. (Amended) A recombinant [Recombinant] DNA comprising [containing] a sequence (1) coding for a polypeptide heterologous with respect to a filamentous hemagglutinin of Bordetella (Fha) fused in the same reading frame with a sequence (2) placed upstream from [the first] said sequence (1). [this] said sequence (2) coding for at least a part of the precursor of the Fha, this part comprising at least the N-terminal region of a truncated mature Fha protein which contains the site of interaction of the Fha with heparin, [on the one hand, and which when this latter is itself placed alone] said sequence (2), when placed under the control of a promoter recognized by the cellular polymerases of *B. pertussis* and introduced into a *B. pertussis* cell culture is expressed in this culture [under the control of this promoter] and excreted into [in to] the culture medium of these cells or exposed at the surface of these cells [, on the other].

In claim 2, line 1, delete "characterized in that" and substitute --wherein-- therefor.

In claim 3, line 1, delete "characterized in that" and substitute --wherein-- therefor.

In claim 4, line 1, delete "characterized in that" and substitute --wherein-- therefor.

In claim 5,

line 2, delete "characterized in that it comprises additionally" and substitute --further comprising-- therefor;

line 3, delete "corresponding essentially to" and substitute --consisting essentially of-- therefor.

In claim 6,

line 2, delete "characterized in that" and substitute --wherein-- therefor;